

# Armin Bashizade

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## Research Interests

- Machine Learning
- Database Systems
- Data Mining
- Social Network Analysis

## Education

- **Amirkabir University of Technology (Tehran Polytechnic)**, Tehran, Iran 2011-2016  
(Expected)  
BSc in Computer Software Engineering  
Thesis Title: Design and Implementation of an Android App for Diet Tracking, under the supervision of Dr Seyed Majid Noorhosseini  
GPA: 16.12/20  
*Selected Coursework (GPA: 18.54/20):*  
*Principles of Database Design, Information Storage and Retrieval, Design of Programming Languages (top grade), Principles of Computer and Programming (top grade), Data Structures and Algorithms (top grade), Design of Algorithms*
- **Alborz High School**, Tehran, Iran 2007-2011  
Diploma in Mathematics and Physics  
GPA: 19.31/20

## Honors and Awards

- Awarded as Outstanding Student in Amirkabir University of Technology, Tehran, Iran. 2012
- Eligible to choose second major due to outstanding performance. 2013
- Awarded ACM Student Membership. 2013-2014
- Ranked 34<sup>th</sup> in The 2012 ACM-ICPC Asia Tehran Regional Contest with *New Gharch Khors* team. 2012
- Top 0.5% among all applicants for the University Entrance Nationwide Exam (Approximately 300,000 applicants), Iran. 2011

## Teaching Experiences

- **Teaching Assistant, Principles of Data Mining** 2015  
Instructed by Dr Ehsan Nazerfard, Department of Computer Engineering and Information Technology, Amirkabir University of Technology (Tehran Polytechnic)
- **Teaching Assistant, Principles of Computer and Programming**, 2012  
Instructed by Dr Bahador Bakhshi, Department of Computer Engineering and Information Technology, Amirkabir University of Technology (Tehran Polytechnic).

## Academic Course Projects

- **Information Storage and Retrieval**, design and implementation of a search engine on a large English document set using TST data structure and K-Means algorithm. (Java) 2014
- **Artificial Intelligence**, implementation of a Sudoku Puzzle Solver using Genetic Algorithm. (C++) 2013
- **Data Mining**, prediction of the probability that a car is purchased in a car store. (Weka, Java) 2014
- **Data Mining**, generating a prediction of the probability that a certain purchase will result into a return on the basis of the past purchase data of the shop. (Weka, Java, MySQL) 2014
- **Principles of Database Design**, design and implementation of an application similar to device and media management of iTunes. (Java, MongoDB) 2013
- **Principles of Database Design**, design and implementation of a relational database for managing a sports league. (MySQL) 2013

	<ul style="list-style-type: none"> <li>• <b>Design of Programming Languages</b>, implementation of semantics of a language. (OCaml) 2014</li> <li>• <b>Design of Algorithms</b>, allocating works to applicants using Maximum Flow algorithm. (C++) 2013</li> <li>• <b>Logic Circuits</b>, design and implementation of a circuit for Master Mind game. (ISIS Proteus) 2012</li> </ul>
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<b>Academic Course Reports</b>	
	<ul style="list-style-type: none"> <li>• <b>Bashizade, A.</b>, “Comparison of Evolutionary Algorithms” – Research Method and Report Writing course, Tehran, Iran. 2014</li> <li>• <b>Bashizade, A.</b>, Mavaee, P., Mirsafian M., Technical report for implementing a static search engine; algorithms, methods, and reasons of its usage – Information Storage and Retrieval course, Tehran, Iran. 2014</li> <li>• <b>Bashizade, A.</b>, Tayebi, M., Fakourfar, M., Kiani, A., Shamshirdar, F., Pasha, N., “Prediction of the probability of car purchase using classification algorithms” project report – Data Mining course, Tehran, Iran. 2014</li> <li>• <b>Bashizade, A.</b>, Pasha, N., “Solving Sudoku Puzzles using Genetic Algorithm” project report - Artificial Intelligence course, Tehran, Iran. 2014</li> <li>• <b>Bashizade, A.</b>, Nabavi S., “Comparison of Replacement Policies in Cache” – Computer Architecture course, Tehran, Iran. 2013</li> </ul>
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<b>Skills</b>	
	<ul style="list-style-type: none"> <li>• <b>Proficient in:</b> C/C++, Java, MySQL, Eclipse, Microsoft Word</li> <li>• <b>Fairly familiar with:</b> Weka, GNU/Linux (Ubuntu), BASH Programming, MongoDB, OCaml, Microsoft Visual Studio, MIPS, HTML, Verilog, VHDL, ISIS Proteus, ModelSim</li> <li>• <b>Having experience of working with:</b> MATLAB, Python, JavaScript, LaTeX, Microsoft SQL Server, Boson NetSim, Packet Tracer</li> </ul>
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<b>Standard Tests</b>	
	<ul style="list-style-type: none"> <li>• <b>TOEFL iBT:</b> 115/120 Reading: 29, Listening: 30, Speaking: 27, Writing: 29 Nov 2015</li> <li>• <b>GRE General Test:</b> Quantitative Reasoning: 167/170, Analytical Writing: 3.0/6.0, Verbal Reasoning: 148/170 Nov 2015</li> </ul>
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<b>Internship</b>	
	<ul style="list-style-type: none"> <li>• <b>eFarda E-Commerce Company</b>, design and development of an accounting Android app 2014</li> </ul>
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<b>Extracurricular Activities</b>	
	<ul style="list-style-type: none"> <li>• <b>Elected</b> as a member of the <b>Students’ Scientific Chapter</b>, CEIT Department, Amirkabir University of Technology (Tehran Polytechnic) 2015</li> <li>• <b>Chairman</b> of the <b>Students’ Scientific Chapter</b>, CEIT Department 2015 <ul style="list-style-type: none"> <li>◦ Executive Director of the 7<sup>th</sup> Amirkabir Linux Festival</li> <li>◦ Executive Team Member of the 15<sup>th</sup> Amirkabir International Collegiate Programming Contest, jointly with <u>Technische Universität München</u></li> <li>◦ Executive Team Member of the 2<sup>nd</sup> National Digital System Design Contest</li> <li>◦ Jury Member of the 2<sup>nd</sup> IranMobiCode Contest</li> </ul> </li> <li>• <b>Editor-in-chief</b> of <b>Pouyesh</b> Student Magazine, the official publication of <b>Students’ Community (Guild Council)</b> of CEIT Department 2014</li> </ul>
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<b>Volunteer Work</b>	
	<ul style="list-style-type: none"> <li>• Teaching Math and Persian to Orphan and Poor Children at <b>Society of Students Against Poverty</b> Summer 2013, Summer 2014</li> </ul>
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## References

- **Professor Ehsan Nazerfard**  
Department of Computer Engineering and Information Technology, Amirkabir University of Technology (Tehran Polytechnic)  
Email: [nazerfard@aut.ac.ir](mailto:nazerfard@aut.ac.ir)
  - **Professor Mehran S. Fallah**  
Department of Computer Engineering and Information Technology, Amirkabir University of Technology (Tehran Polytechnic)  
Email: [msfallah@aut.ac.ir](mailto:msfallah@aut.ac.ir)
  - **Professor Hamid R. Zarandi**  
Department of Computer Engineering and Information Technology, Amirkabir University of Technology (Tehran Polytechnic)  
Email: [h\\_zarandi@aut.ac.ir](mailto:h_zarandi@aut.ac.ir)
  - **Professor Bahador Bakhshi**  
Department of Computer Engineering and Information Technology, Amirkabir University of Technology (Tehran Polytechnic)  
Email: [bbakhshi@aut.ac.ir](mailto:bbakhshi@aut.ac.ir)
  - **Professor Seyed Majid Noorhosseini**  
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